

CONVAIR  
A Division of General Dynamics Corporation  
(San Diego)

DESIGN INFORMATION BULLETIN

NO.: 14.005

CONVAIR REPORT NO. ZM-22-005

PAGE: 1 of 2

MODEL 22 AIRPLANE

WEIGHT CONTROL OF ITEMS  
ENGINEERED OUTSIDE OF CONVAIR

DATE: 5-21-57

REV.: 11-28-57

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Paragraph 2.7 of EDI 227 (Issue 6) requires weight control statements, one of which is to appear in each Procurement Specification and each Project Specifications Control Drawing. The statements are as follows:

- (a) THE VENDOR SHALL PROVIDE A GUARANTEED MAXIMUM WEIGHT AS A PART OF HIS PROPOSAL. IN NO CASE SHALL THIS WEIGHT EXCEED \_\_\_\_\_ LBS.
- (b) THE VENDOR SHALL PROVIDE A GUARANTEED MAXIMUM WEIGHT AS A PART OF HIS PROPOSAL. THE HELP OF THE VENDOR IS SOLICITED TO MAKE THIS ITEM AS LIGHT AS POSSIBLE CONSISTENT WITH OTHER DESIGN REQUIREMENTS.

On the Model 22, the intent of statement (a) is to be used where possible. In those cases where it is not possible, statement (b) shall be used. Amplification of these statements may be required to the effect that a lower weight shall be significant in evaluating proposals. However, each statement must require that a guaranteed weight be quoted by the vendor.

Engineering procurement may also be covered by specifications, work statement or paper other than Procurement Specifications or Project Specification Control Drawings describing the basic requirements of any parts or systems. Basic weight responsibility for such procurement will be established as follows:

- (a) When the subcontractor has complete design responsibility, the procurement document shall contain the following information.
  - 1. The subcontractor shall provide a guaranteed maximum weight as a part of his proposal. This weight shall become a part of the contract agreement.
  - 2. A low weight guarantee will receive favorable consideration in evaluation of proposals.
  - 3. The subcontractor shall exercise a high degree of weight control throughout all phases of design so as to meet or better the guaranteed weight.
  - 4. The subcontractor shall submit monthly weight and balance status reports but shall notify the contractor immediately of any pending major overweight.
  - 5. The subcontractor shall provide weight calculation sheets in accordance with contractor practice.
  - 6. The subcontractor, if he also manufactures the article, shall verify the calculated weight by weighing the first article.
  - 7. All drawings are to be signed by Subcontractors weight engineer.



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(b) When subcontractors operate under the control of Convair design groups, the procurement document shall contain the following information.

1. A target weight and c.g. shall be provided by the contractor.
2. The subcontractor shall make every effort to stay below the target weight.
3. The subcontractor shall submit monthly weight and balance reports but shall notify the contractor immediately of any pending major overweight.
4. The subcontractor shall provide weight calculation sheets in accordance with contractor practice.
5. The subcontractor, if he also manufactures the article, shall verify the calculated weight by weighing the first article.
6. The basic responsibility for weight control remains with the Contractor's design section; all drawings shall be signed by the Contractor's weight engineers before release.



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